

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604 □ 2 □ A - Soldier Systems - Warrior Dem/Val

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	0	0	57818	27086	29935	29927	41877	46842	0	233485
S56 MOUNTED WARRIOR	0	0	7600	0	0	0	0	0	0	7600
S57 LAND WARRIOR	0	0	50218	27086	29935	29927	41877	46842	0	225885

A. Mission Description and Budget Item Justification: Not applicable for this item.

B. Program Change Summary

	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	0	0	0
Current Budget (FY 2006/2007 PB)	0	57818	27086
Total Adjustments	0	57818	27086

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)							February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604□2□A - Soldier Systems - Warrior Dem/Val				PROJECT S56		
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
S56 MOUNTED WARRIOR	0	0	7600	0	0	0	0	0	0	7600
<p><u>A. Mission Description and Budget Item Justification:</u> The Army has moved funds from PE 0604713A-680 effective FY06. Mounted Warrior (MW) provides combat crewmembers and vehicle commanders in the Current and Future force with increased mission effectiveness on the network centric battlefield in the areas of lethality, command and control, communications, survivability, mobility, and sustainability. MW Soldier Systems (MWSS) will provide the combat commander increased capabilities to conduct offensive and defensive operations by providing uninterrupted viewing of their immediate surroundings while remaining connected to on-board platform C4I capabilities, thereby providing crews with continuous situational awareness. MWSS Helmet Mounted Display extends fire control information to vehicle commanders while they are standing up in the hatch, or dismounted allowing them to maintain immediate situational awareness of their direct battle space, while simultaneously controlling inter-netted fires, vehicle, or dismounted soldiers. MWSS will provide remote digital connectivity to the Force XXI Battle command Brigade and Below (FBCB2) information system via the vehicles C4I capabilities. The MWSS will maximize crew mobility, providing hands free, tetherless communications.</p> <p>Prior to FY06 this funding was under PE 0604713A, Project 680.</p>										
<u>Accomplishments/Planned Program</u>							FY 2004	FY 2005	FY 2006	FY 2007
FY2006 Planned Program: Continue developmental engineering, prototype manufacturing and systems engineering and program management support for Battalion quantity of Mounted Warrior.							0	0	7600	0
Totals							0	0	7600	0

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PROJECT

S56

B. Other Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
RDTE, 0604713A, D680, Mounted Warrior	0	2685	0	0	0	0	0	0	0	2685
OPA 3, M80600, Mounted Warrior	0	0	1600	0	0	0	0	0	0	1600
RDTE, 0604713A, D667, Land Warrior	78183	72974	0	0	0	0	0	0	0	151157
RDTE, 0604827A, S57, Land Warrior	0	0	50218	27086	29935	29927	41877	46842	Continuing	Continuing
RDTE, 0303001, DJ50, Future Warrior Technology	43806	49143	56034	40286	44956	44998	42526	43976	Continuing	Continuing
OPA 4, MS3610, Land Warrior Initial Spares	643	708	492	1574	1622	1613	629	632	Continuing	Continuing
OPA 3, M80500, Land Warrior	1538	8862	35700	21198	49066	70884	28680	3087	Continuing	Continuing

C. Acquisition Strategy: The Army has moved funds from PE 0604713A-680 effective FY06. The MW program provides the spiral fielding of mature technologies and advanced capabilities to meet the needs of the Combat Vehicle Crewman (CVC). The first spiral will equip a Stryker battalion with mature/existing technologies to be used to develop tactics, techniques and procedures (TTPs), which will be used to define the requirements for future spirals.

ARMY RDT&E COST ANALYSIS(R3)										February 2005		
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
5 - System Development and Demonstration					0604□2□A - Soldier Systems - Warrior Dem/Val					S56		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Develop Mounted Warrior technologies	TBD	TBD	0	0		5852	2Q	0		0	5852	0
Subtotal:			0	0		5852		0		0	5852	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Mounted Warrior Program Support	OGA, MIPR	Various	0	0		600	1-4Q	0		0	600	0
Subtotal:			0	0		600		0		0	600	0

ARMY RDT&E COST ANALYSIS(R3)									February 2005				
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT			
5 - System Development and Demonstration					0604□2□A - Soldier Systems - Warrior Dem/Val					S56			
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
			0	0		0		0		0	0	0	
Subtotal:													
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
a . PM Soldier Warrior oversight of MW program	In-House/Task Order	PM Soldier Warrior, Ft. Belvoir, VA	0	0		1148	1-4Q	0		0	1148	0	
Subtotal:			0	0		1148		0		0	1148	0	
Project Total Cost:			0	0		7600		0		0	7600	0	

Schedule Profile (R4 Exhibit)																				February 2005												
BUDGET ACTIVITY 5 - System Development and Demonstration										PE NUMBER AND TITLE 0604□2□A - Soldier Systems - Warrior Dem/Val												PROJECT S56										
Event Name	FY 05				FY 06				FY 0□				FY 0□				FY 0□				FY 10				FY 11				FY 12			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Heads-Up Display Development/Fabrication																																
MW Development																																
MW Initiate Long Leads																																
MW Limited Testing & Evaluation																																
(1) Stryker BN Equipped																																

Schedule Detail (R4a Exhibit)						February 2005		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604 □ 2 □ A - Soldier Systems - Warrior Dem/Val			PROJECT S56	
<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Heads-up Display Development/Fabrication		2-4Q						
MW Development		2-4Q						
MW Initiate Long Leads		3-4Q	1-2Q					
MW Limited T & E		3-4Q	1-2Q					
(1) Stryker BN equipped			3Q					

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2005

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604□2□A - Soldier Systems - Warrior Dem/Val

PROJECT

S5□

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
S57 LAND WARRIOR	0	0	50218	27086	29935	29927	41877	46842	0	225885

A. Mission Description and Budget Item Justification: The Army has moved funds from PE 0604713A-667 effective FY06. In an effort to comply with Congressional intent and to leverage from the success of current developed Land Warrior (LW) components, the Army has refocused the LW program to spiral out Dismounted Battle Command System (DBCS) capabilities (e.g. Commander's Digital Assistant (CDA), Enhanced Position Location and Reporting System (EPLRS) MicroLight Radio) to Soldiers in the field for near-term capability. Accelerating components of the Land Warrior System also addresses the Soldier component of Future Combat System (FCS). Land Warrior integrated ensemble systems, to include applicable long-lead items, will be produced for a Stryker Battalion for evaluation purposes in the Fiscal Year 2006 (FY06) timeframe. The Ground Soldier System (GSS) will leverage the technological advancements transitioned from the Science and Technology (S&T) community including Future Force Warrior (FFW) to develop the Ground Soldier capability for FCS. The LW program and FFW Advanced Technology Demonstration (ATD) have made progress in the consolidating in accordance with the FY05 Appropriations Language and a report has been submitted to Congress.

Prior to FY06 this funding was under PE 0604713A, Project 667.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
FY06: Prime contractor continues development engineering efforts for DBCS capabilities and for the LW integrated ensemble systems for the Stryker Battalion.	0	0	32284	11492
FY07: Funds are for the Prime contractor developing one company's worth of prototype devices for DBCS capabilities and for continuing development engineering efforts for the LW integrated ensemble systems for the Stryker Battalion. These efforts provide a segue for initial development of the Ground Soldier capability for FCS.				
FY06: Funds will be used for Operational testing for the DBCS capability efforts and for the LW integrated ensemble systems for the Stryker Battalion.	0	0	7215	5350
FY07: Funds will be used to perform developmental and operational testing on the DBCS capability for Light Forces.				

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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5 - System Development and Demonstration

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PROJECT

S5□

Accomplishments/Planned Program (continued)

FY06 and FY07: Funds will be used for program management and systems engineering support for overall program efforts. Continue minimal operation of PM Land Warrior - Fort Monmouth, and maintain appropriate activity at PM Land Warrior - Fort Bragg. Program development and execution of Memoranda of Agreement (MOAs) and support agreements with other PMs related to DBCS and FCS capabilities. Conduct technical and program reviews for DA Level In Process Reviews (IPR), ASARC Milestone preparations, develop, maintain, report out on required ACAT 1 program documentation requirements. Support NATO Land Group 3 and other partnered countries to ensure compatability with potential multinational military operations.

FY 2004

FY 2005

FY 2006

FY 2007

0

0

10719

10244

Totals

0

0

50218

27086

B. Other Program Funding Summary

FY 2004

FY 2005

FY 2006

FY 2007

FY 2008

FY 2009

FY 2010

FY 2011

To Compl

Total Cost

RDTE, 0604713A, D667, Land Warrior

78183

72974

0

0

0

0

0

0

0

151157

OPA 3, M80500, Land Warrior

1538

8862

35700

21198

49066

70884

28680

3087

Continuing

Continuing

OPA 4, MS3610, Land Warrior Initial Spares

643

708

492

1574

1622

1613

629

632

Continuing

Continuing

RDTE, 0603001, DJ50, Future Warrior Technology Insertion

43806

49143

56034

40286

44956

44998

42526

43976

Continuing

Continuing

RDTE, 0604817A, D902 Combat Identification

8021

0

0

0

0

0

0

0

0

8021

RDTE, 0604713A, Mounted Warrior

0

2685

0

0

0

0

0

0

0

2685

RDTE, 0604827, S56, Mounted Warrior

0

0

7600

0

0

0

0

0

0

7600

OPA 3, M80600, Mounted Warrior

0

0

1600

0

0

0

0

0

0

1600

C. Acquisition Strategy: The Army has moved funds from PE 0604713A-667 effective FY06. Funds are under PE 0604827A-S57 after FY 2005. Efforts are refocused as LW ramps down development engineering and integration for DBCS capabilities, and ramps up development engineering for the Soldier Component of the Future Combat System (FCS) Unit of Action(UA). In an effort to comply with Congressional intent and to leverage from the success of current developed Land Warrior (LW) components, the Army has refocused the LW program to spiral out Dismounted Battle Command System (DBCS) capabilities (e.g. Commander's Digital Assistant (CDA), Enhanced Position Location and Reporting System (EPLRS) MicroLight Radio) to Soldiers in the field for near-term capability. Accelerating components of the Land Warrior System also addresses the Soldier component of Future Combat System (FCS). Land Warrior integrated ensemble systems, to include applicable long-lead items, will be produced for a Stryker Battalion for evaluation purposes in the Fiscal Year 2006 (FY06) timeframe.

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BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604□2□A - Soldier Systems - Warrior Dem/Val	PROJECT S5□
<p>The Ground Soldier System (GSS) will leverage the technological advancements transitioned from the Science and Technology (S&T) community including Future Force Warrior (FFW) to develop the Ground Soldier capability for FCS. The LW program and FFW Advanced Technology Demonstration (ATD) have made progress in the consolidating in accordance with the FY05 Appropriations Language and a report has been submitted to Congress.</p>		

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604□2□A - Soldier Systems - Warrior Dem/Val					PROJECT S5□		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Develop DBCS capabilities, LW integrated ensemble systems, and GSS capability	CPFF	GDDS, Scottsdale, Arizona	0	0		32284	1-4Q	11492	1-4Q	Continue	43776	0
Subtotal:			0	0		32284		11492		Continue	43776	0
Remarks: Award dates covering multiple quarters reflect multiple awards.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Modern Tech Inc - Support Contractors	Task Order	Modern Tech Inc, Springfield, VA	0	0		2500	1-4Q	2500	1-4Q	0	5000	0
b . TSM, PM Land Warrior North Support, and others	OGA, MIPR	various	0	0		1000	1-4Q	1000	1-4Q	0	2000	0
Subtotal:			0	0		3500		3500		0	7000	0
Remarks: Buys government and contract engineering and logistical support for overall program support.												

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BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT		
5 - System Development and Demonstration					0604 2 A - Soldier Systems - Warrior Dem/Val					S5		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various Testing Organizations	OGA, MIPR	ATC, TTC/YPG/DTC/EPG/ ARL-SLAD, etc	0	0		7215	1-4Q	5350	1-4Q	0	12565	0
Subtotal:			0	0		7215		5350		0	12565	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Soldier Warrior - oversight of LW program	In-House Task Order	Various	0	0		7219	1-4Q	6744	1-4Q	0	13963	0
Subtotal:			0	0		7219		6744		0	13963	0
Remarks: Award dates covering multiple quarters reflect multiple awards.												
Project Total Cost:			0	0		50218		27086		Continue	77304	0

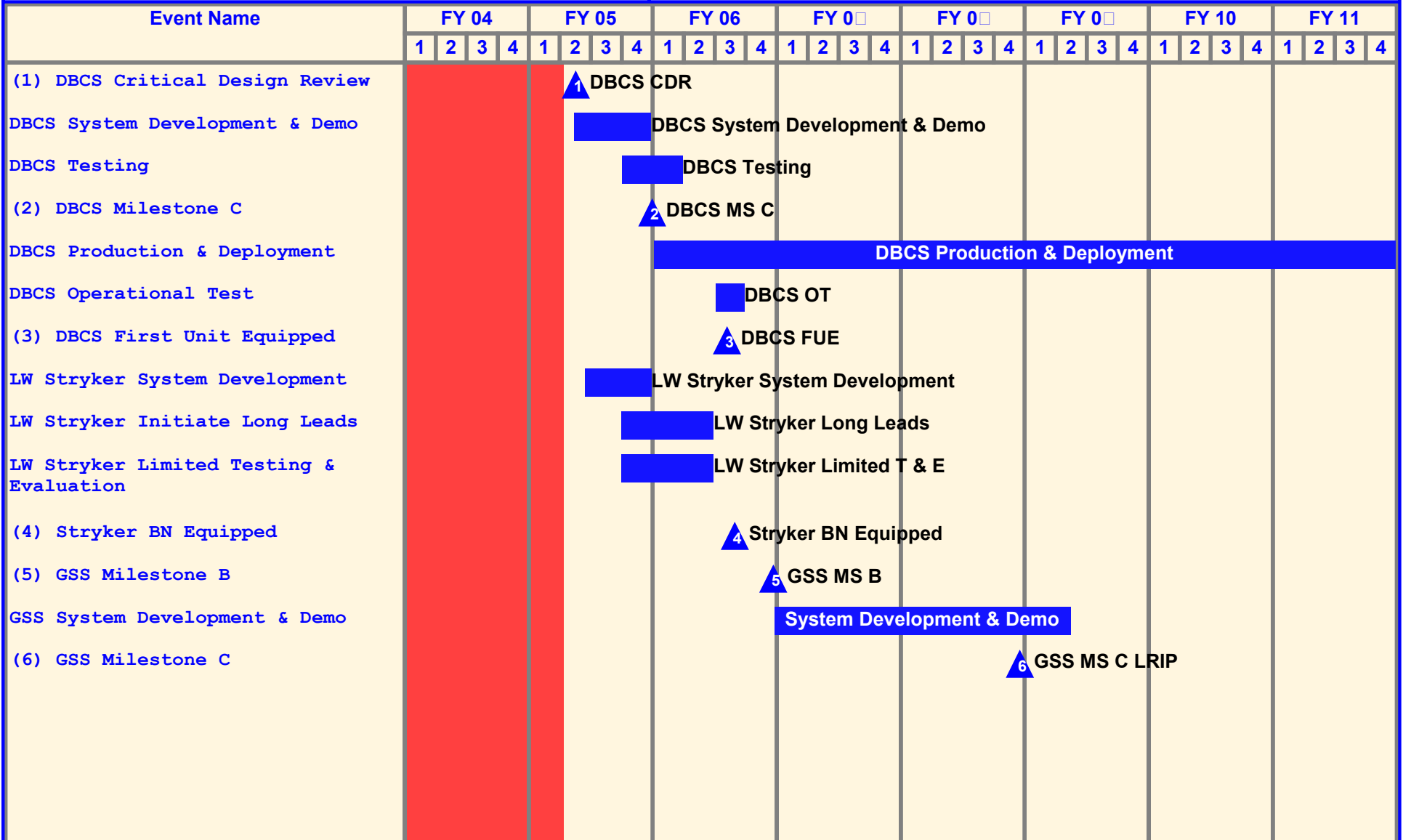
Schedule Profile (R4 Exhibit)

February 2005

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604 2 A - Soldier Systems - Warrior Dem/Val

PROJECT
S5



Schedule Detail (R4a Exhibit)

February 2005

BUDGET ACTIVITY

5 - System Development and Demonstration

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0604 □ 2 □ A - Soldier Systems - Warrior Dem/Val

PROJECT

S5 □

<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
DBCS CDR		2Q						
DBCS System Development & Demo		2-4Q						
DBCS Testing		4Q	1Q					
DBCS MS C		4Q						
DBCS Production & Deployment		1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
DBCS Operational Test			3Q					
DBCS FUE			3Q					
LW Stryker Development		2-4Q						
LW Stryker Initiate Long Leads		4Q	1-3Q					
LW Stryker Limited Testing & Evaluation		4Q	1-3Q					
Stryker BN Equipped			3Q					
GSS MS B			4Q					
GSS System Development & Demo			4Q	1-4Q	1-4Q	1-2Q		
GSS MS C LRIP					4Q			